


## PATENT COOPERATION TREATY

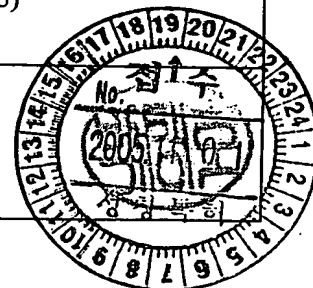
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference APF-059	<b>FOR FURTHER ACTION</b> See Form PCT/IPEA/416	
International application No. <b>PCT/KR2004/001606</b>	International filing date(day/month/year) <b>01 JULY 2004 (01.07.2004)</b>	Priority date (day/month/year) 04 JULY 2003 (04.07.2003)
International Patent Classification (IPC) or national classification and IPC  <b>IPC7 G06K 9/00</b>		
Applicant  <b>PARK, Kwang-Don</b>		

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:</p> <p style="margin-left: 40px;"><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p style="margin-left: 40px;"><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____ containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>	
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>	

Date of submission of the demand  <b>23 DECEMBER 2004 (23.12.2004)</b>	Date of completion of this report  19 OCTOBER 2005 (19.10.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer  PARK, Sung Ho  Telephone No. 82-42-481-5724



# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/001606

## Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☒ This report is based on translations from the original language into the following language English which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
- ☒ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☒ the international application as originally filed/furnished

☐ the description:

pages \_\_\_\_\_ as originally filed/furnished  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the claims:

pages \_\_\_\_\_ as originally filed/furnished  
 pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the drawings:

pages \_\_\_\_\_ as originally filed/furnished  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/001606

## Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1 - 19	YES
	Claims	None	NO
Inventive step (IS)	Claims	12 - 19	YES
	Claims	1 - 11	NO
Industrial applicability (IA)	Claims	1 - 19	YES
	Claims	None	NO

### 2. Citations and explanations (Rule 70.7)

#### 1) Inventive Step

The following documents have been considered for the purpose of this written opinion:

D1: KR 2002-0085144 A (16 November 2002)

D2: US 4,767,205 A (30 August 1988)

The present invention relates to a random-type recognizing object for an identifying apparatus wherein identification particles are distributed irregularly within a 3D shape and a positional value and a characteristic value of the identification particles distributed within the 3D shape in one or plural directions are recognized by separate recognizing means, and an identification apparatus and method using a random type recognition object whose reproduction is impossible.

D1 relates to a method for confirming the genuineness of a product, comprising the following steps : a user receives a code issued from a code issuing system and attaches the said code to a product; a receiver of it recognizes the said code and accesses a central processing system and confirms the genuineness of the product.

D2 relates to a method of hidden identification by mixing micro-sized particles of the various colors and sizes with a solid material such as resin and using the mixture as an only identifier.

\*\*\* To be continued at the page of the supplemental box \*\*\*

**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.  
Continuation of:

\*\*\* Continuation of the box V \*\*\*

Box V.

The following are comparisons between the present invention and the cited inventions above:

The technical features of D2 related to a random-type identifying material and the technical features of D1 related to the confirmation of the genuineness of a product by using an identifying material are similar to those of the claims 1-11 of the present invention. A little difference between the present invention and the invention of D1 is that the random-type identifying material is used in the present invention, whereas a code is used in D1. However, these features of the present invention are disclosed in D2.

Accordingly, it would be obvious to a person skilled in the art to make a random-type identifying material to confirm the genuineness of a product of the present invention easily, by combining the technical features of D1 and the teachings of D2.

Consequently, the characterizing features of the claims 1-11 of the present invention are considered not to involve an inventive step under PCT Article 33(3).

## 2) Novelty and Industrial Applicability.

The claims 1-19 in the present invention are considered to be novel and industrially applicable under PCT Article 33(2) and 33(4).

## PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING

To:  
KOH, Young-Hoe

1543-11, Sanwoo Bldg. 4th Floor, Seocho-dong, Seocho-gu,  
Seoul 137-070 Republic of Korea

WRITTEN OPINION OF THE  
INTERNATIONAL PRELIMINARY  
EXAMINING AUTHORITY

(PCT Rule 66)

Date of mailing  
(day/month/year) 15 JULY 2005 (15.07.2005)

Applicant's or agent's file reference  
APF-059

REPLY DUE within 2 months from  
the above date of mailing

International application No.  
**PCT/KR2004/001606**

International filing date (day/month/year)  
**01 JULY 2004 (01.07.2004)**

Priority date(day/month/year)  
**04 JULY 2003 (04.07.2003)**

International Patent Classification (IPC) or both national classification and IPC

**IPC7 G06K 9/00**

Applicant

**PARK, Kwang-Don**


1. ☒ The written opinion established by the International Searching Authority :  
☒ is ☐ is not  
considered to be a written opinion of the International Preliminary Examining Authority.
2. This second (first, etc.) opinion contains indications relating to the following items:
  - ☒ Box No. I Basis of the opinion
  - ☐ Box No. II Priority
  - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - ☐ Box No. IV Lack of unity of invention
  - ☒ Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - ☐ Box No. VI Certain documents cited
  - ☐ Box No. VII Certain defects in the international application
  - ☐ Box No. VIII Certain observations on the international application
3. The applicant is hereby **invited to reply** to this opinion.

**When ?** See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(e).

**How ?** By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

**Also** For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis. For an informal communication with the examiner, see Rule 66.6. For an additional opportunity to submit amendments, see Rule 66.4.

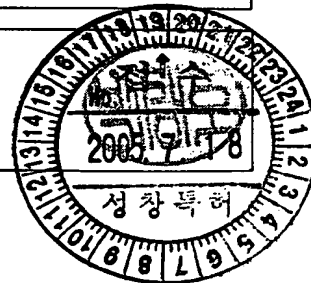
**If no reply is filed**, the international preliminary examination report will be established on the basis of this opinion.
4. The final date by which the international preliminary report on patentability (Chapter II of the PCT) must be established according to Rule 69.2 is: 25 OCTOBER 2005 (25.10.2005)

Name and mailing address of the IPEA/KR  
 Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea  
Facsimile No. 82-42-472-7140

Authorized officer

PARK, Sung Ho

Telephone No. 82-42-481-5724



**WRITTEN OPINION OF THE  
INTERNATIONAL PRELIMINARY EXAMING AUTHORITY**

International application No.

PCT/KR2004/001606

**Box No. I Basis of the opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which was filed, unless otherwise indicated under this item.

☒ This opinion is based on a translation from the original language into the following language English  
which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))  
☒ publication of the international application (under Rule 12.4)  
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this opinion has been established on the basis of (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed."):

☒ the international application as originally filed

☐ the description:

pages \_\_\_\_\_, as originally filed/furnished  
pages \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
pages \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the claims:

pages \_\_\_\_\_, as originally filed/furnished  
pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
pages \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the drawings:

pages \_\_\_\_\_, as originally filed/furnished  
pages \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
pages \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_  
☐ the claims, Nos. \_\_\_\_\_  
☐ the drawings, sheet/fig \_\_\_\_\_  
☐ the sequence listing (specify): \_\_\_\_\_  
☐ any table(s) related to the sequence listing (specify): \_\_\_\_\_

4. ☐ This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

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☐ the claims, Nos. \_\_\_\_\_  
☐ the drawings, sheet/fig \_\_\_\_\_  
☐ the sequence listing (specify): \_\_\_\_\_  
☐ any table(s) related to the sequence listing (specify): \_\_\_\_\_

**WRITTEN OPINION OF THE  
INTERNATIONAL PRELIMINARY EXAMING AUTHORITY**

International application No.  
PCT/KR2004/001606

**Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1 - 19	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1 - 19	NO
Industrial applicability (IA)	Claims	1 - 19	YES
	Claims		NO

**2. Citations and explanations :**

**1) Inventive Step**

The following documents have been considered for the purpose of this written opinion:

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D2 relates to a method of hidden identification by mixing micro-sized particles of the various colors and sizes with a solid material such as resin and using the mixture as an only identifier.

\*\*\* To be continued at the page of the supplemental box \*\*\*

**WRITTEN OPINION OF THE  
INTERNATIONAL PRELIMINARY EXAMING AUTHORITY**

International application No.

PCT/KR2004/001606

**Supplemental Box**

**In case the space in any of the preceding boxes is not sufficient.**  
Continuation of:

\*\*\* Continuation of the box V \*\*\*

Box V.

The following are comparisons between the present invention and the cited inventions above:

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Accordingly, it would be obvious to a person skilled in the art to make a random-type identifying material to confirm the genuineness of a product of the present invention easily, by combining the technical features of D1 and the teachings of D2.

Consequently, the characterizing features of the claims 1-19 of the present invention are considered not to involve an inventive step under PCT Article 33(3).

**2) Novelty and Industrial Applicability.**

The claims 1-19 in the present invention are considered to be novel and industrially applicable under PCT Article 33(2) and 33(4).